

AMENDMENTS TO THE CLAIMS

What is claimed is:

1. (Previously Amended) A new media identification system comprising:
 - at least one analysis module for receiving data including data for a work from a plurality of sources, generating a corresponding representation from said data, and transmitting said representation;
 - at least one First Tier identification server for receiving said representation and identifying said work from said representation; and
 - at least one Second Tier ID server for identifying said work from said representation when said at least one First Tier Identification server does not identify said work.
2. (Previously Amended) The system of claim 1, wherein said at least one analysis module further includes an input port configured to receive said data from a networked source.
3. (Previously Amended) The system of claim 1, wherein said at least one analysis module further includes an input port configured to receive said data from a broadcast source.
4. (Previously Amended) The system of claim 1, wherein said at least one analysis module further includes an input port configured to receive said data in the form of a pre-broadcast digital form.

5. (Previously Amended) The system of claim 1, wherein said at least one analysis module and said at least one First Tier Identification server are coupled over a network.
6. (Original) The system of claim 5, wherein said network comprises the Internet.
7. (Previously Amended) The system of claim 1, wherein said representation comprises feature vectors.
8. (Previously Amended) The system of claim 1, wherein said representation comprises a spectral representation of said work.
9. (Previously Amended) The system of claim 1, wherein said representation comprises the text output of a speech recognition system.
10. (Previously Amended) The system of claim 1, wherein said representation comprises the musical score output of a music transcription system.
11. (Previously Amended) The system of claim 1, wherein said representation comprises a bit calculated key.
12. (Previously Amended) The system of claim 1, wherein said First Tier Identification server is configured to identify said received work using feature vectors from said representation.
13. (Previously Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using a spectral representation from said representation.

14. (Previously Amended) The system of claim 1, wherein said First Tier Identification server is configured to identify said received work using the text output of a speech recognition system from said representation.
15. (Previously Amended) The system of claim 1, wherein said First Tier Identification server is configured to identify said received work using the musical score output of a music transcription system from said representation.
16. (Previously Amended) The system of claim 1, wherein said First Tier Identification server is configured to identify said received work using a bit calculated key from said representation.
17. (Previously Amended) The system of claim 1, wherein said First Tier Identification server is configured to identify said received work using feature vectors from said representation.
18. (Previously Amended) The system of claim 1, wherein said Second Tier Identification server is configured to identify said received work using a spectral representation from said representation.
19. (Previously Amended) The system of claim 1, wherein said Second Tier Identification server is configured to identify said received work using the text output of a speech recognition system from said representation.
20. (Previously Amended) The system of claim 1, wherein said Second Tier Identification server is configured to identify said received work using the musical score output of a music transcription system.

21. (Previously Amended) The system of claim 1, wherein said Second Tier Identification server is configured to identify said received work using a bit calculated key.
22. (Original) The system of claim 1, wherein said at least one analysis modules are further configured to receive a plurality of streaming sources for analysis at a single location.
23. (Original) The system of claim 1, wherein said at least one analysis modules are further configured to receive a plurality of streaming sources for analysis at a plurality of different access points of the network.
24. (Previously Amended) The system of claim 1, wherein said at least one analysis module is configured to provide said representations to said at least one First Tier Identification server at a predetermined time interval.
25. (Original) The system of claim 24, wherein said predetermined time interval comprises at least once a day.
26. (Original) The system of claim 24, wherein said predetermined time interval comprises approximately once an hour.
27. (Previously Amended) The system of claim 24, wherein said at least one analysis module is configured to provide said representation to said at least one First Tier Identification server responsive to generating said representation.

28. (Previously Amended) The system of claim 24, wherein said at least one analysis module is configured to provide said representations to said at least one First Tier Identification server based on an out-of-band event.
29. (Previously Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is further configured to generate a playlist of identified works.
30. (Previously Amended) A method for identifying a work from data received by an analysis module that generates a representation of said data and wherein said data includes data of said work comprising:
 - receiving said representation by a First Tier Identification server;
 - attempting, by said First Tier Identification server, to identify said from said representation;
 - if identification of said work is not possible, then, determining whether said representation is similar to previously received unidentified representations; and
 - if said representation is similar to a previously received unidentified representation, then sending said representation to a Second Tier Identification server for identification.
31. (Previously Amended) The method of claim 30, wherein said Second Tier Identification server includes a plurality of tiers of Identification servers.

32. (Previously Amended) The method of claim 30, further including the act of providing a reference database of representations expected to be detected on said First Tier Identification server.
33. (Previously Amended) A system for identifying a work using an N tiered Identification server system wherein said work is included in data received by an analysis module and wherein said analysis module generates a representation of said data and transmits said representation to said N tiered Identification Server system comprising:
- a Tier N server including a database of a first plurality of representations of identified works ;
 - at least one Tier N+1 server including a database of a second plurality of representations of identified works; and
 - wherein said Tier N server is configured to receive a representation and attempt to identify a work by comparing said representation to representations in said first plurality of representations and send repeating unidentified representations to said Tier N+1 for identification.
34. (Previously Amended) The system of claim 33, wherein said at least one Tier N+1 server is configured to notify said Tier N server of a repeating segment if a repeating segment is identified.
35. (Previously Amended) The system of claim-33, wherein each successive said at least one Tier N+1 server includes a database larger said database of said N Tier server.

36. (Previously Amended) The system of claim 35, wherein all said at least one N+1 tiers operate in parallel.
37. (Previously Amended) The system of claim 36, wherein the operation of said N+1 tiers is aborted upon the identification of an unknown segment by a member of said successive tiers.
38. (Previously Amended) The system of claim 33, further including a set of smaller Tier N-servers having databases smaller than said Tier N server.
39. (Previously Amended) A system for identifying new media comprising:
- means for receiving said representation by a First Tier Identification server;
 - means for attempting, by said First Tier Identification server, to identify said from said representation;
 - means for determining whether said representation is similar to previously received unidentified representations if identification of said work is not possible; and
 - means for sending said representation to a Second Tier Identification server for identification if said representation is similar to a previously received unidentified representation.
40. (Previously Amended) The system of claim 39, wherein said Second Tier Identification server includes a plurality of tiers of Identification servers.

41. (Previously Amended) The method of claim 39, further including means for providing a reference database of representations expected to be detected on said First Tier identification server.
42. (Previously Amended) A program storage device readable by a machine containing a set of instructions to perform a method by the machine, the method comprising:
- receiving said representation by a First Tier Identification server;
 - attempting, by said First Tier Identification server, to identify said ~~segment~~ from said representation;
 - if identification of said work is not possible, then, determining whether said representation is similar to previously received unidentified representations; and
 - if said representation is similar to a previously received unidentified representation, then sending said representation to a Second Tier Identification server for identification.
43. (Previously Amended) The device of claim 42, wherein said Second Tier Identification server includes a plurality of tiers of Identification servers.
44. (Previously Amended) The device of claim 42, further including means for providing a reference database of representations expected to be detected on said First Tier identification server.